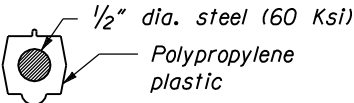


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

NOTE:

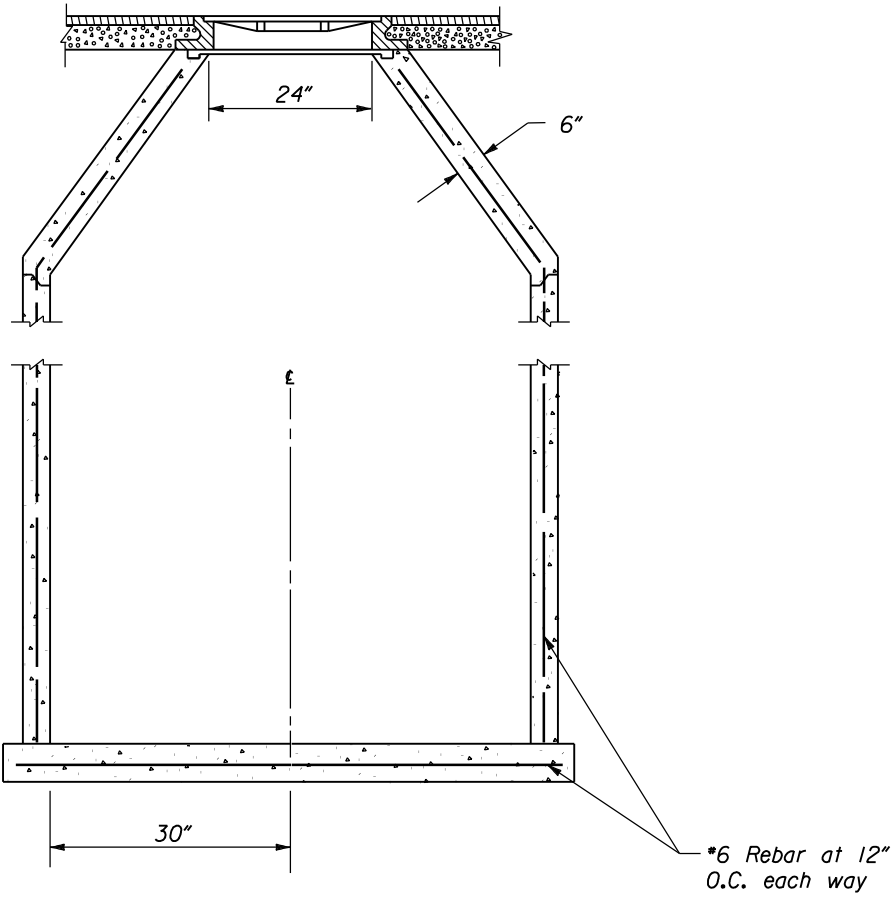
1. Loading: HS20.
2. Structural Steel: ASTM A36.
3. Bolts & Washers: ASTM A307, nongalvanized.
4. Threaded Concrete Anchors: Ferrule loop inserts for 3/8" bolt or approved equal.
5. Headed Concrete Anchors: Weld to frame with a full penetration butt weld.
6. Welding: Weld according to Section 555. Seal weld all joints unless otherwise indicated with a minimum size fillet weld, based on material thickness. Grind smooth all contact surfaces.
7. Concrete: Furnish concrete conforming to Section 60I. Chamfer all exposed edges and corners 3/4".
8. Reinforcing Steel: Furnished conforming to AASHTO M31 or M322, Grade 60
9. Foundation Steel: Will be inspected and approved by the CO prior to pouring the floor.
10. Inlets: Construct inlets with horizontal tops unless otherwise directed by the CO at locations where a sloping top and grating will fit adjacent ground slopes.
11. Estimated Mass: Frame and grate, 420 lb.
12. Steps-*none* required where "H" is less than 30". Where "H" is 30" or more, install steps with lowest rung 12" above the floor, and the highest rung not more than 6" below top of inlet. Space steps at uniform intervals not to exceed 12". Place steps in the wall without an opening use only step inserts that comply with State Industrial requirements.



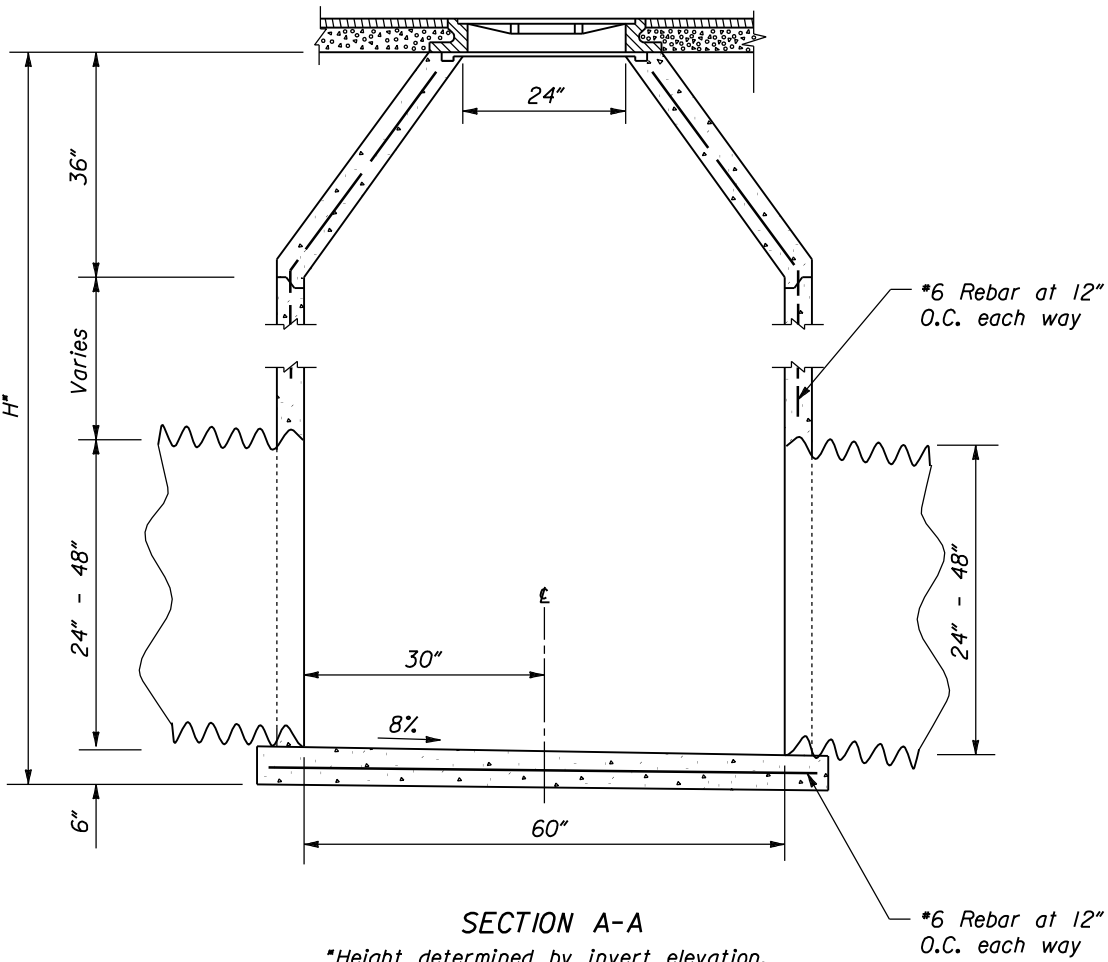
TYPICAL SECTION
(STEP INSERT)

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION U.S. CUSTOMARY DETAIL	
MANHOLE	
DETAIL APPROVED FOR USE 07/2004	DETAIL
REVISED:	C604-51

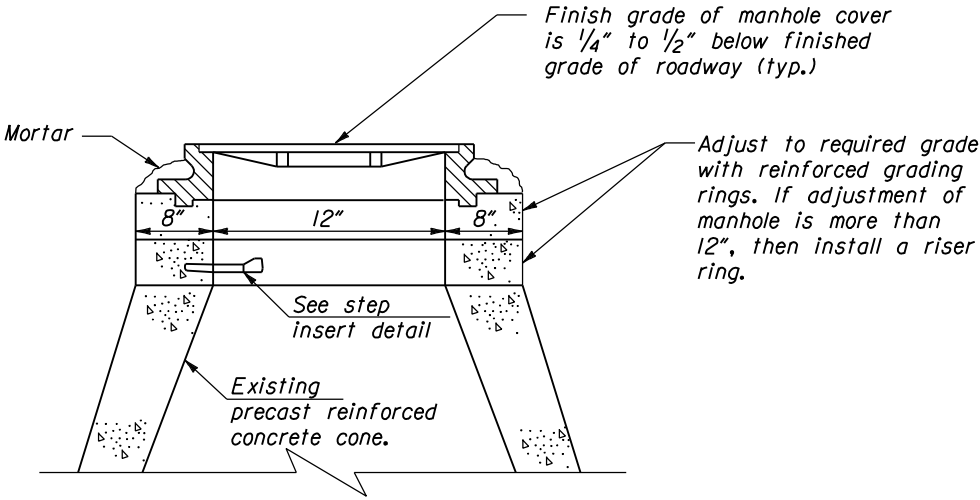
NO SCALE



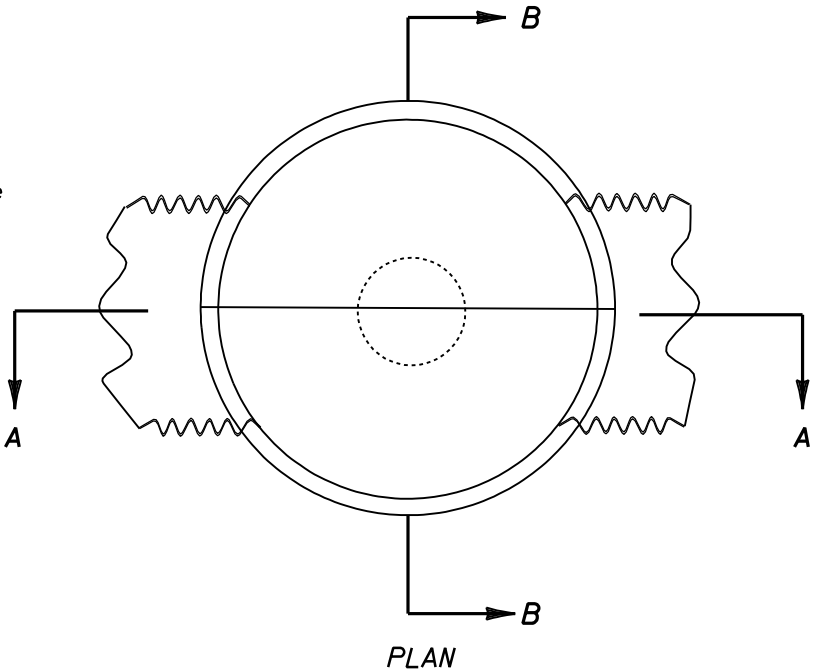
SECTION B-B



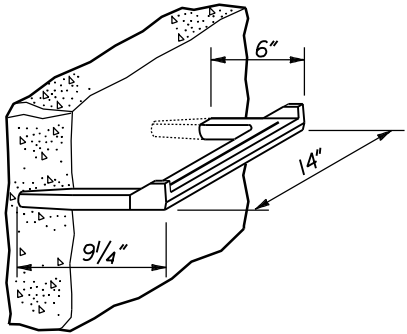
SECTION A-A
*Height determined by invert elevation.



TYPICAL ADJUSTMENT
OF MANHOLE



MANHOLE



STEP INSERT DETAIL